Fig. 1

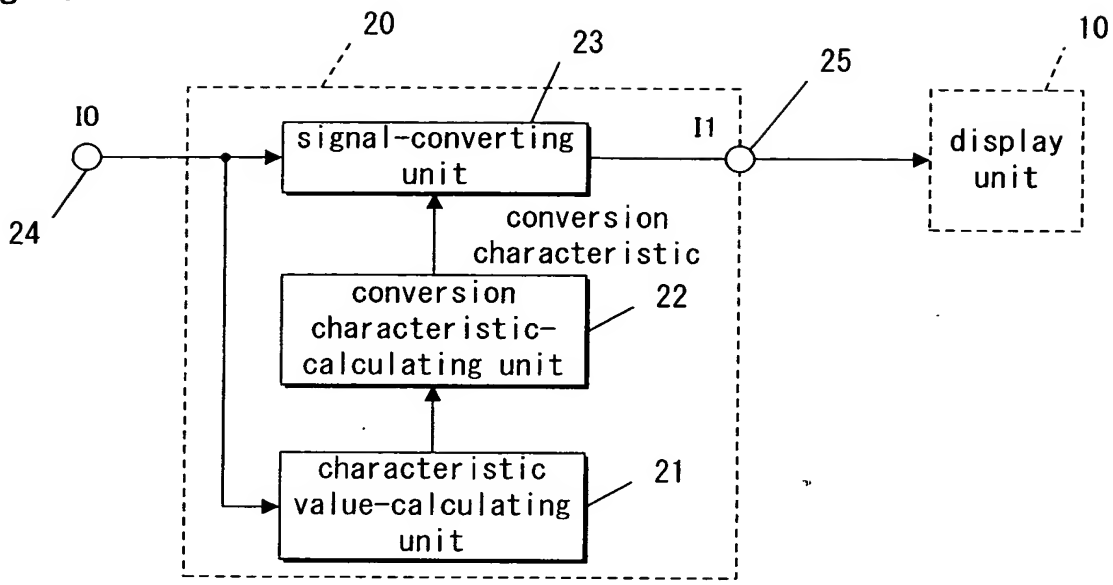

20
23
25
10
I0
signal-converting unit
I1
display unit
24
conversion characteristic
conversion characteristic-calculating unit
22
characteristic value-calculating unit
21

Fig. 2

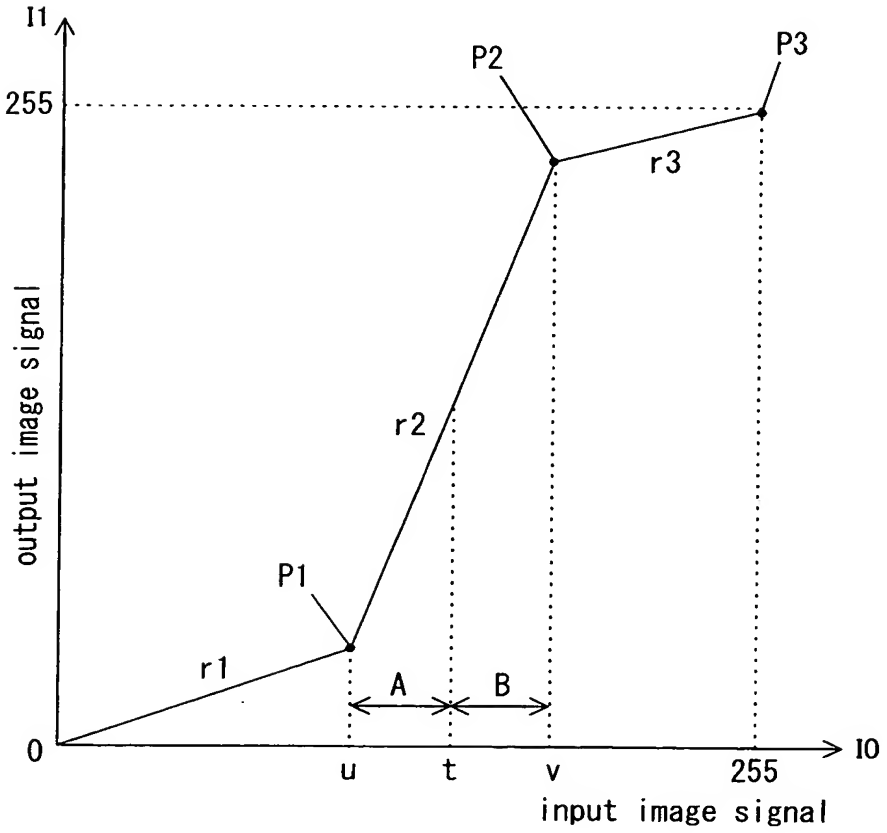

I1
255
P2
P3
r3
r2
P1
r1
A
B
0
I0
u
t
v
255
output image signal
input image signal

Fig. 3

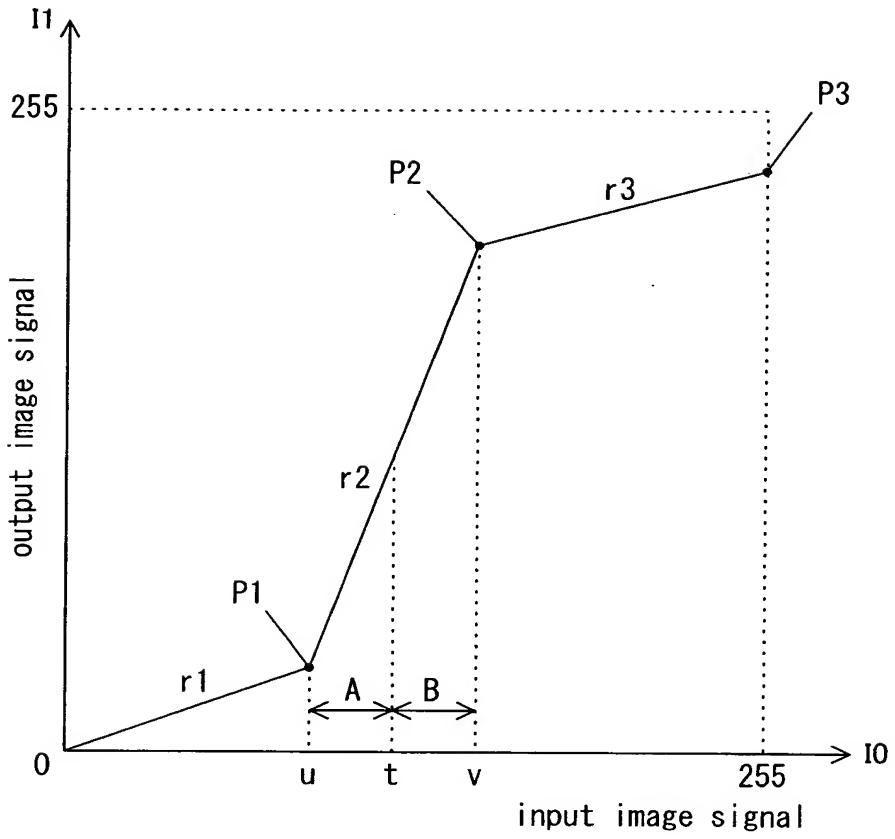

I1
255
P3
P2
r3
output image signal
r2
P1
r1
A
B
0
u
t
v
255
I0
input image signal

Fig. 4

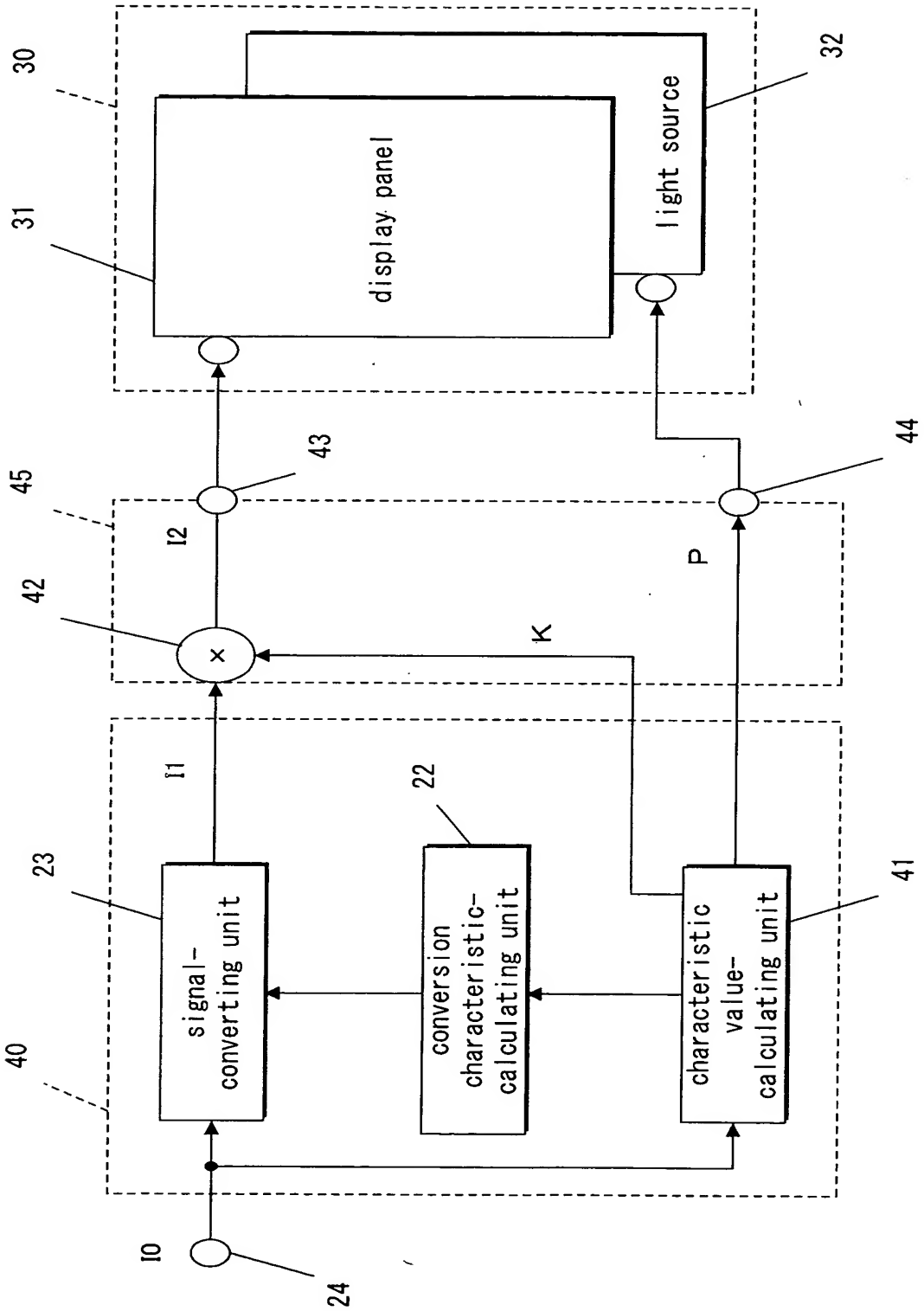

30
31
display panel
light source
32
43
44
45
I2
P
42
x
K
I1
22
23
signal-converting unit
conversion characteristic-calculating unit
characteristic value-calculating unit
41
40
I0
24

Fig. 5

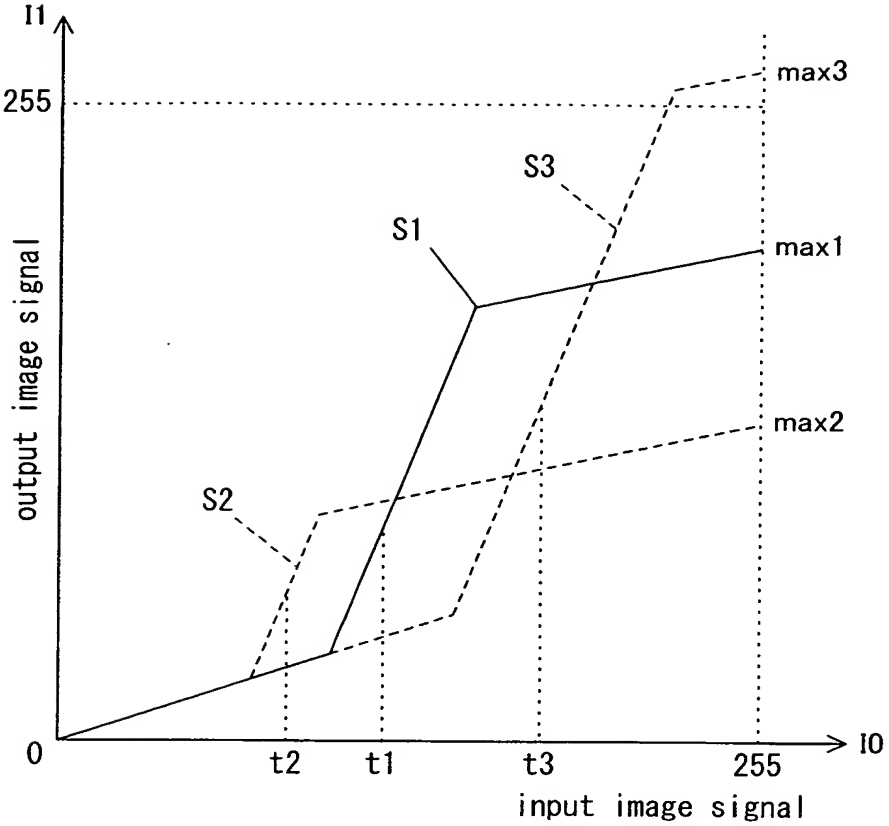

I1
255
max3
S3
S1
max1
output image signal
max2
S2
0
t2
t1
t3
255
I0
input image signal

Fig. 6

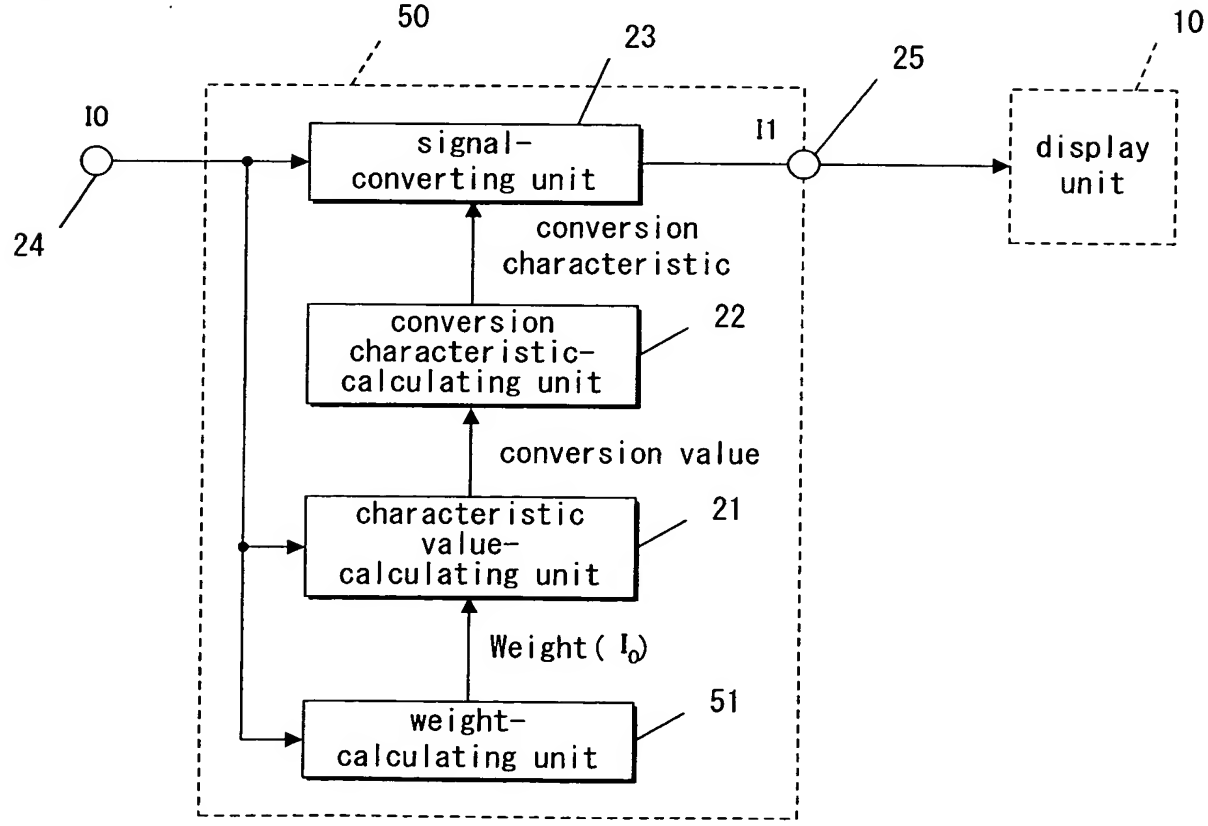

50
23
25
10
I0
signal-converting unit
I1
display unit
24
conversion characteristic
conversion characteristic-calculating unit
22
conversion value
characteristic value-calculating unit
21
Weight (I_0)
weight-calculating unit
51

Fig. 7

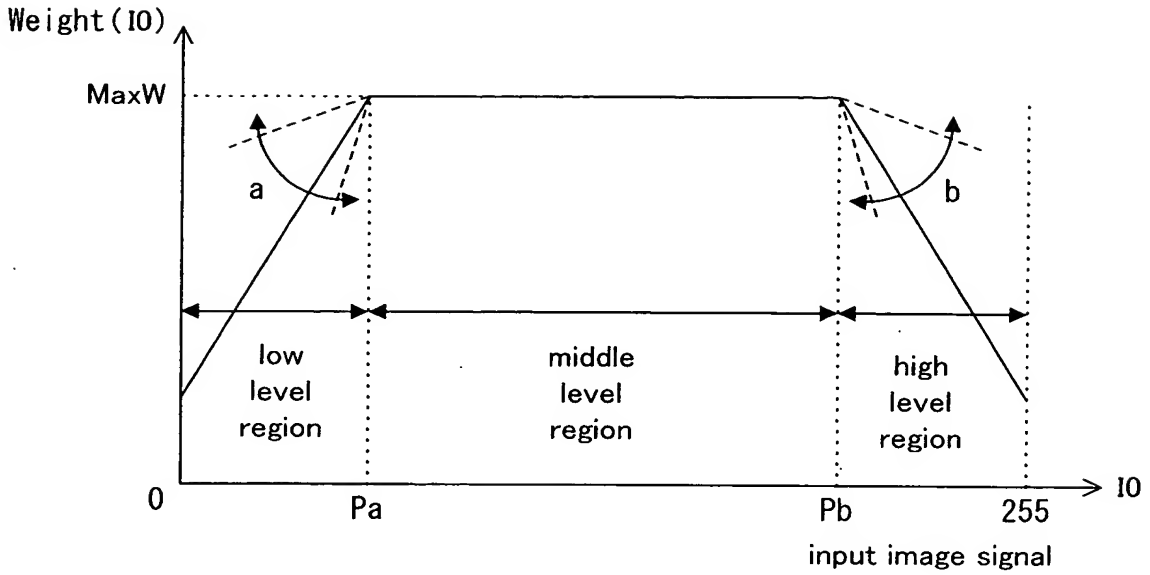

Weight(I0)
MaxW
a
b
low
level
region
middle
level
region
high
level
region
0
Pa
Pb
255
I0
input image signal

Fig. 8

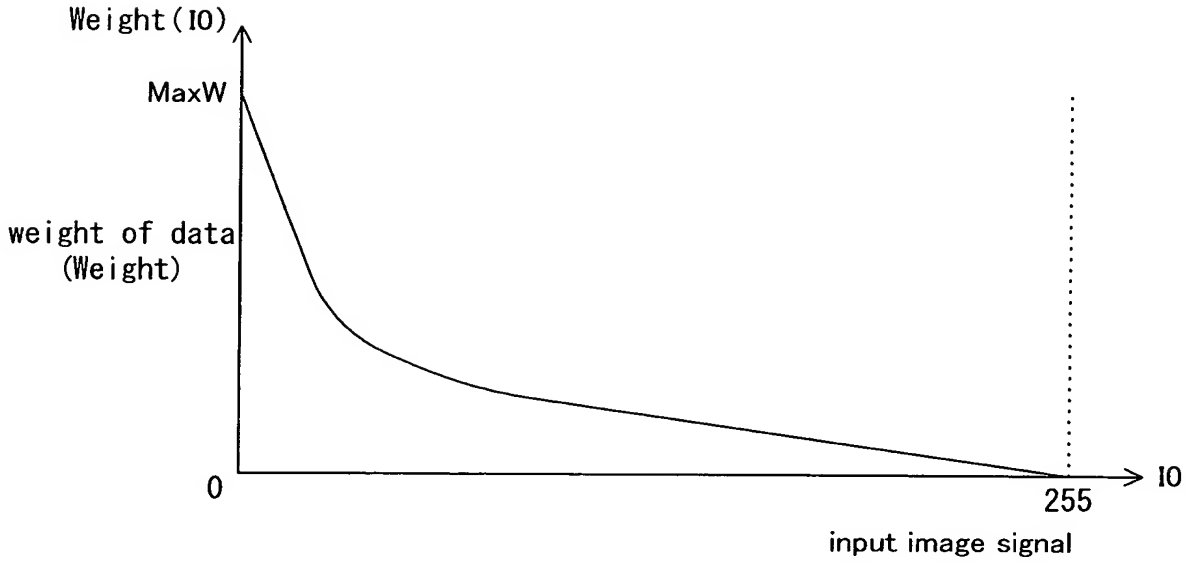

Weight(I0)
MaxW
weight of data
(Weight)
0
255
I0
input image signal

Fig. 9

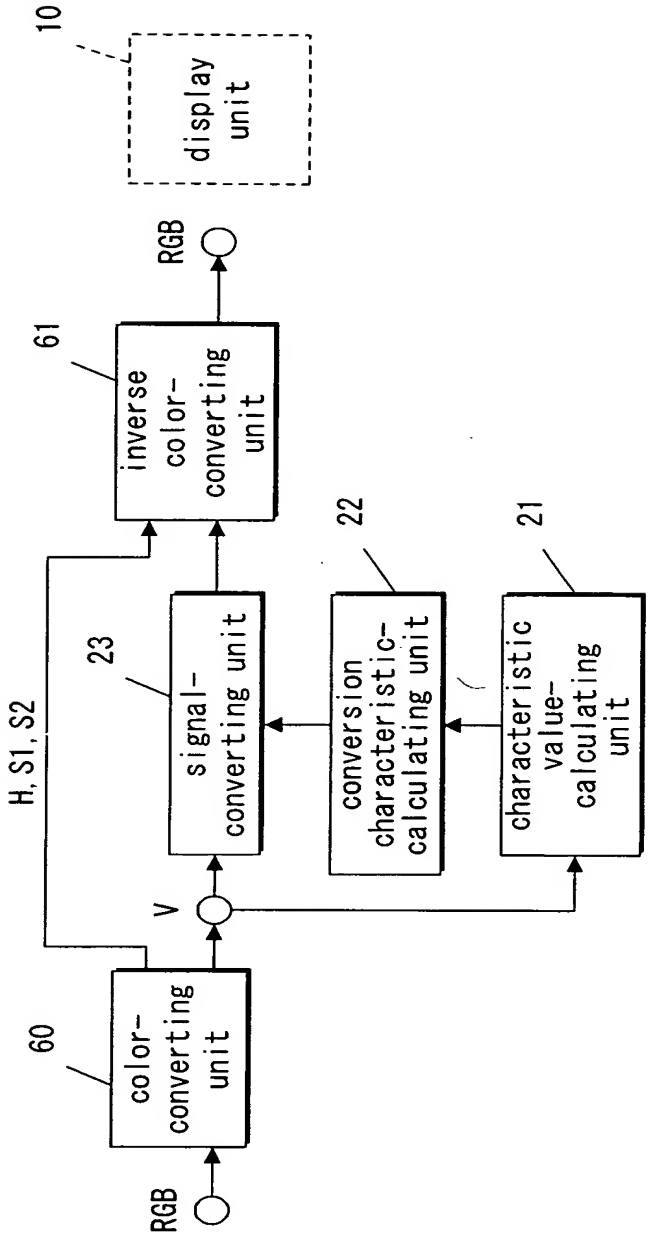


Fig. 10

H	Max	Mid	Min
0	Red	Green	Blue
1	Red	Blue	Green
2	Green	Red	Blue
3	Green	Blue	Red
4	Blue	Red	Green
5	Blue	Green	Red

Fig. 11

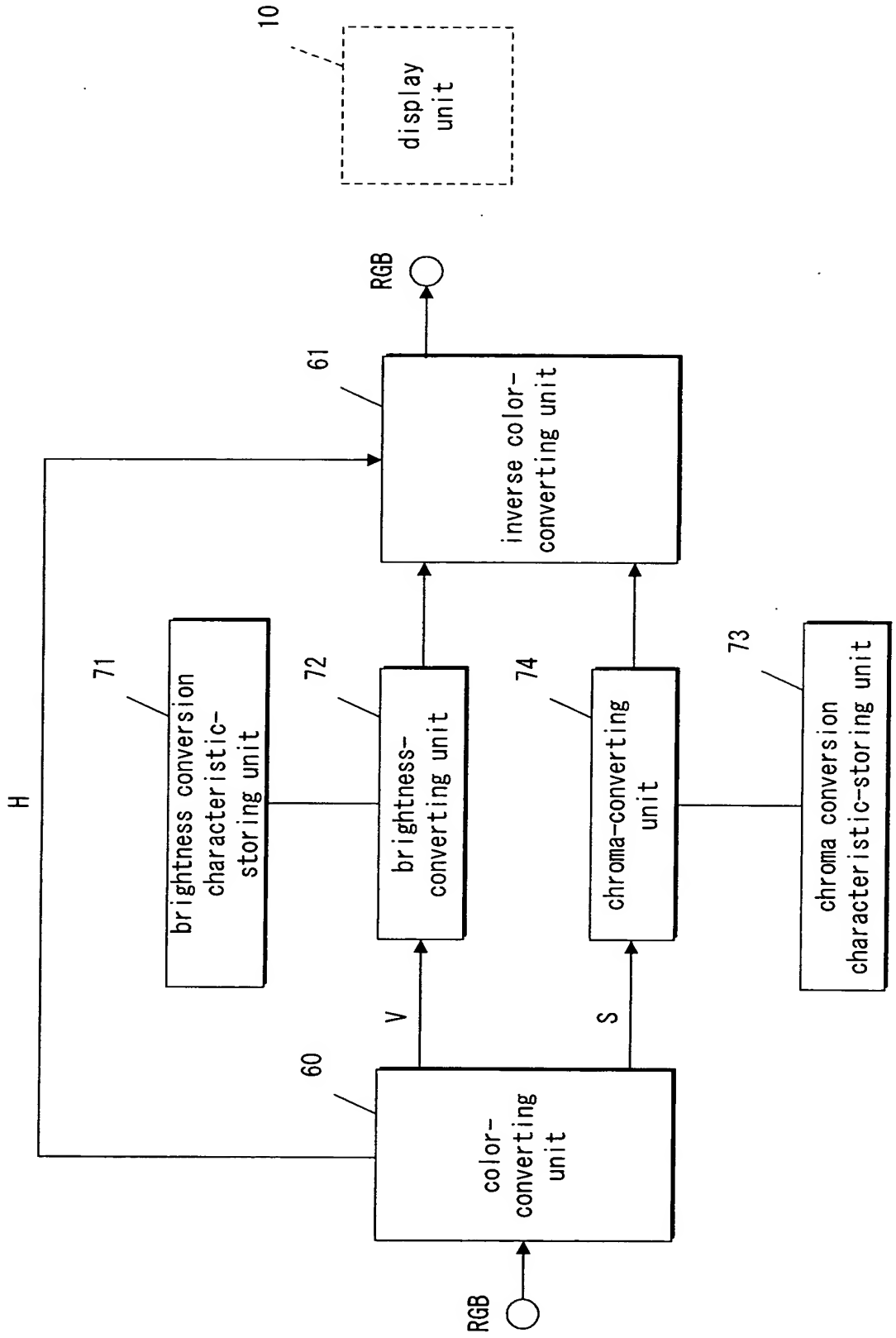

10
display unit
RGB
61
inverse color-converting unit
71
brightness conversion characteristic-storing unit
72
brightness-converting unit
74
chroma-converting unit
73
chroma conversion characteristic-storing unit
H
V
S
60
color-converting unit
RGB

Fig. 12

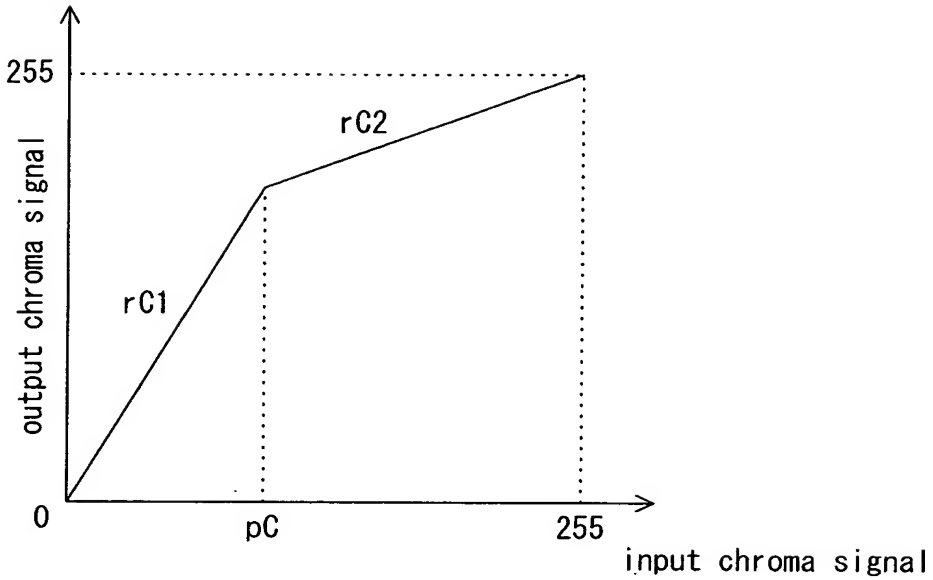

255
rC2
output chroma signal
rC1
0
pC
255
input chroma signal

Fig. 13

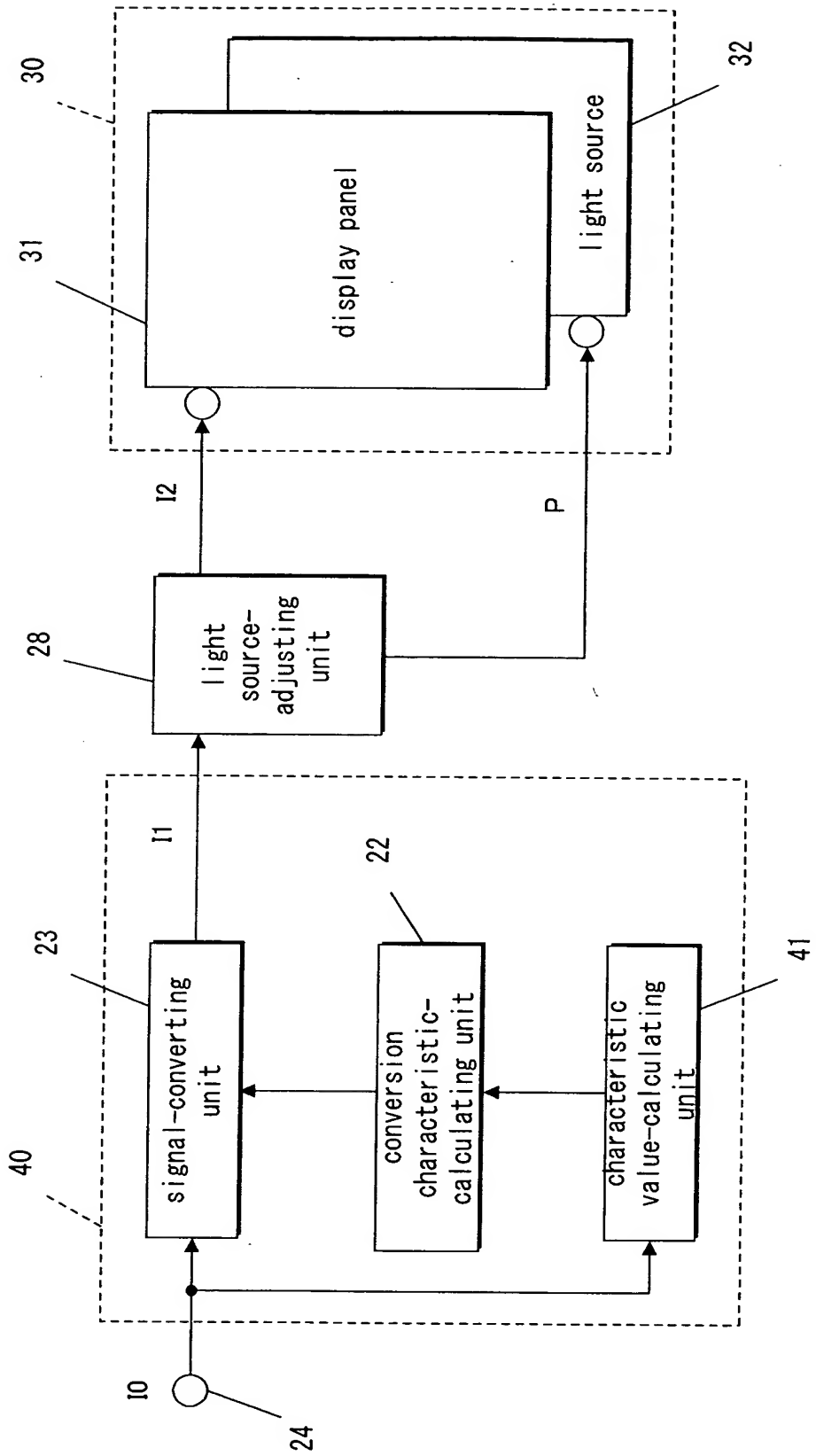

30
31
32
display panel
light source
I2
P
28
light source-adjusting unit
I1
22
23
41
signal-converting unit
conversion characteristic-calculating unit
characteristic value-calculating unit
40
I0
24

Fig. 14

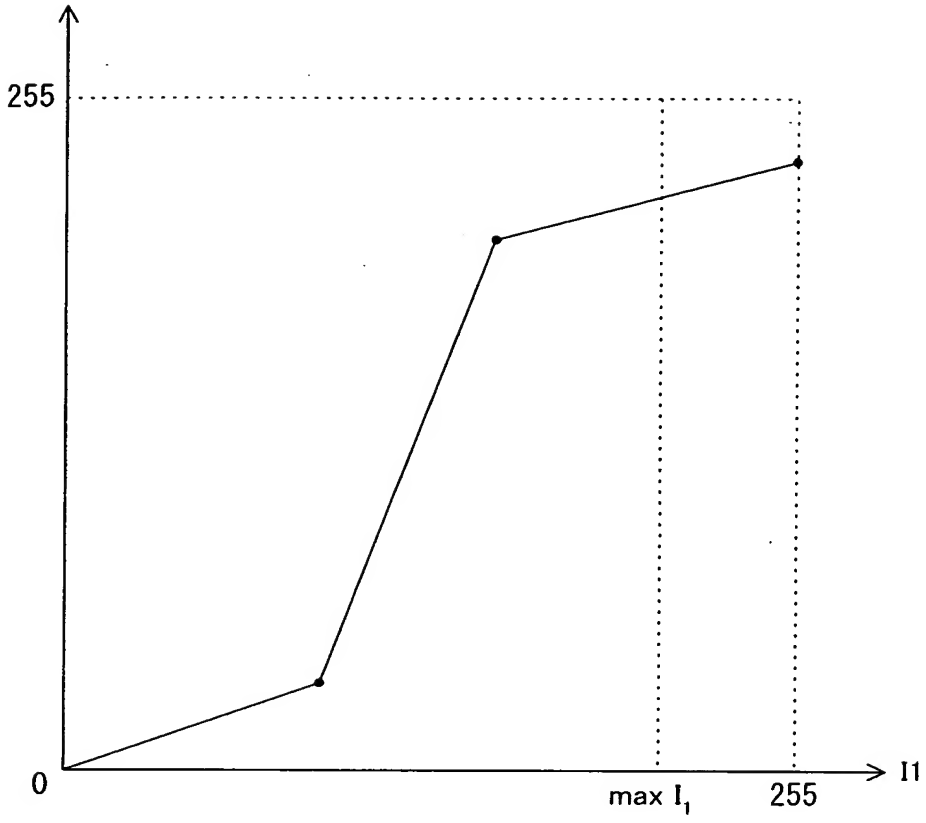


Fig. 15

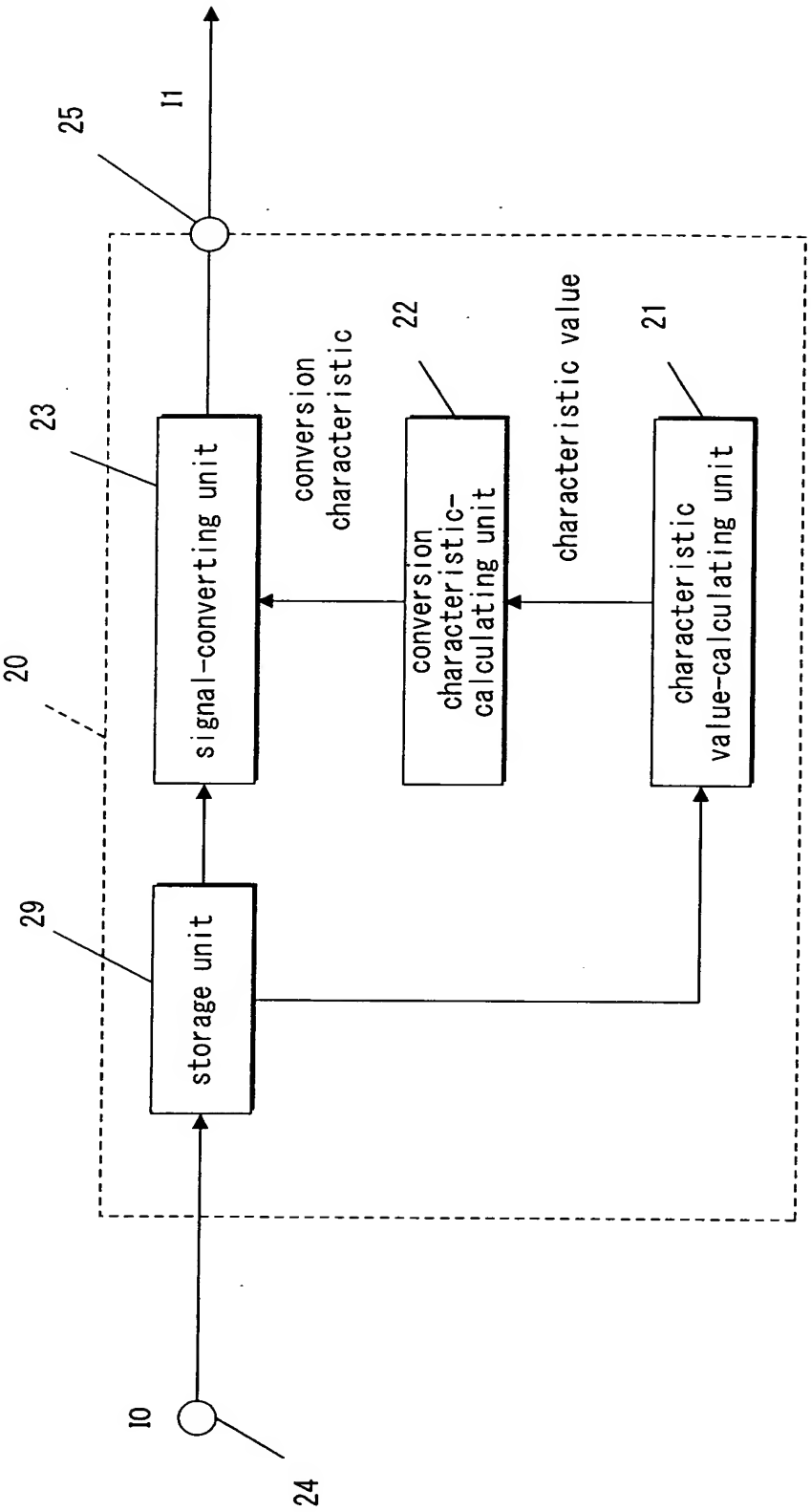
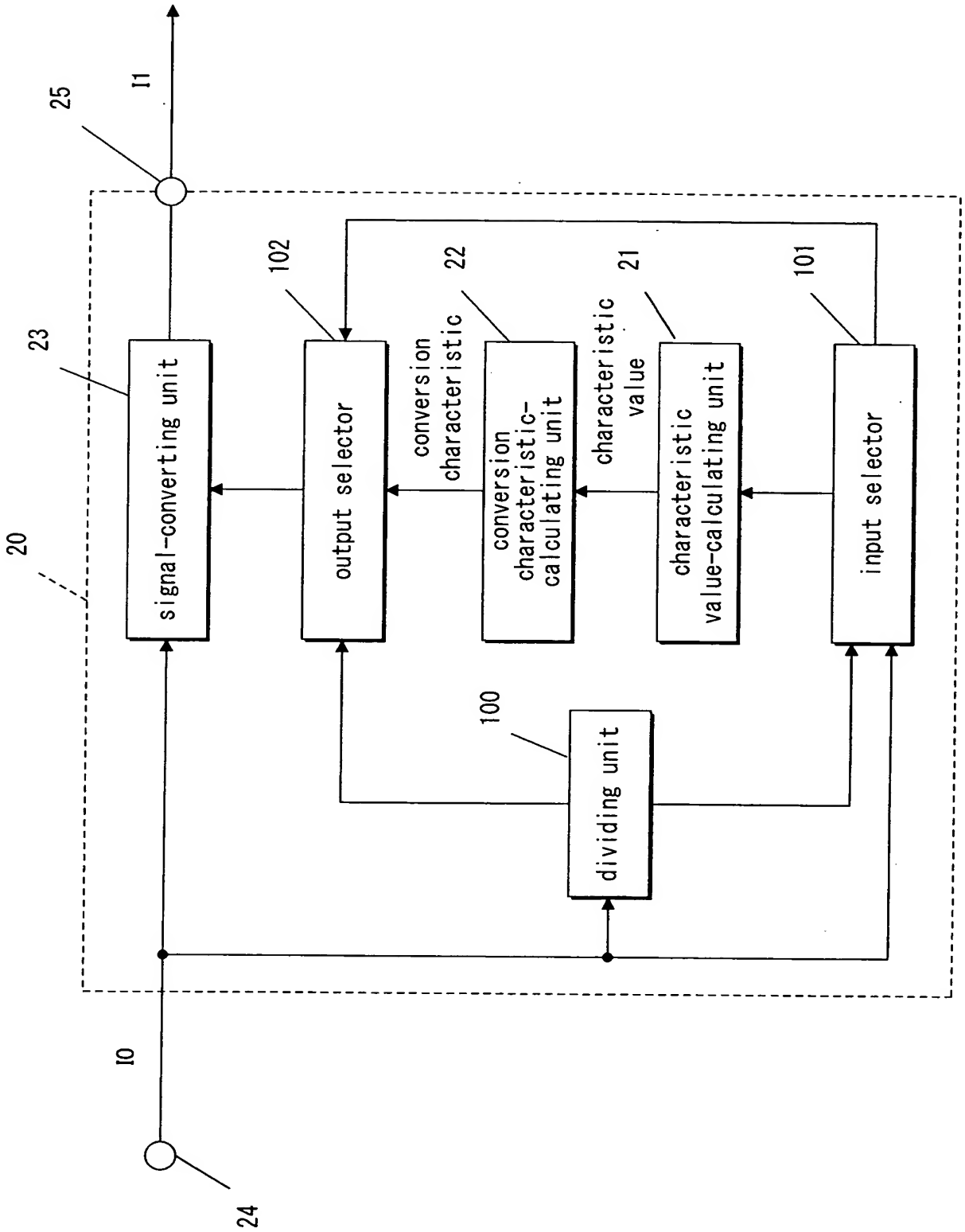

11
25
23
signal-converting unit
conversion characteristic
22
conversion characteristic-calculating unit
characteristic value
21
characteristic value-calculating unit
20
29
storage unit
10
24

Fig. 16


I1
25
102
22
21
101
23
signal-converting unit
output selector
conversion characteristic
conversion characteristic-calculating unit
characteristic value
characteristic value-calculating unit
input selector
20
100
dividing unit
I0
24